

Work Order ID 117920

May-05-14 2:26:54 PM

117920

Page 1

Item ID: D4728-063 Accept *N900040100* Setup Start *NS1*

Revision ID: Stop *NS2*

Item Name: Cabin Temp Sensor Jumper Assembly

Start Date: 5/05/14 Start Qty: 1.00 *1* Cust Item ID:

Required Date: 7/02/14 Req'd Qty: 1.00 *1* Customer:

Reference:

Approvals: Process Plan: MLJ Date: 14-05-05 Tooling: _____ Date: _____ Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
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D4728	D
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110 0.00

110

Outsource8

Outsource process- Eagle

Memo

Issue P/O to Eagle 24007
Manufacture as per dwg
Certificate of conformity required

0.00

cmg 5/6/14

120 Receive & Inspect for Damage & Mat'l Certs 0.00

120

Packaging

Packaging

Memo

Inspect and check certificate of conformity

0.00

P-12/14 (1)

130 QC4- 100% Inspect kits for completeness 0.00

130

QC

Quality Control

Memo

0.00

DAS
27
9-89

14/14

1

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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Work Order ID 117920

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Page 2

May-05-14 2:26:54 PM

Item ID: D4728-063 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: Cabin Temp Sensor Jumper Assembly
Start Date: 5/05/14 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 7/02/14 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	Identify as per dwg & Stock Location: <u>MF5</u>	0.00				<u>1X</u>		<u>14-7-7</u>	
140	Memo	0.00							
Packaging									
Packaging									
150	QC21- Final Inspection - Work Order Release	0.00							
150	Memo	0.00							
QC									
Quality Control									

DAS
26
9-89

MLD 1407-08
UNF
14-7-07

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

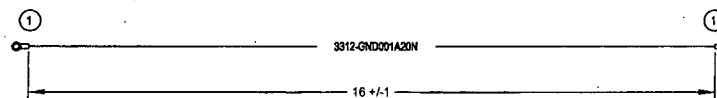
Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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LIST OF MATERIALS				
QTY PER	ITEM	PART NUMBER	DESCRIPTION	SUPPLIER
2	1	MS25036-103	TERMINAL	TYCO ELECTRONICS



D4728-063 CABIN TEMP SENSOR JUMPER ASSY.

NOTES:

- ALL NEW UNSHIELDED WIRE USE M22759/41-XX-9 TYPE WIRE UNLESS OTHERWISE SPECIFIED (M22759/41-XX-X IS NOT INTENDED TO BE USED IN SOLDER APPLICATIONS. SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER. USE CRIMP SPLICES FOR REPAIR).
- ALL NEW TWISTED SHIELDED CABLE USE M27500-XX-TGXT14 TYPE CABLE UNLESS OTHERWISE SPECIFIED.
- ALL WIRES 20 AWG UNLESS OTHERWISE SPECIFIED.
- IDENTIFY/CODE ALL WIRES AND CABLES IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.
- KEEP ALL JUMPERS, LOGIC STRAP, POWER, CHASSIS AND SIGNAL GROUND WIRES AS SHORT AS POSSIBLE.
- ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.
- ALL ELECTRICAL GROUNDING AND BONDING TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.
- ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.
- ENSURE ALL UNUSED CONNECTOR CONTACTS ARE FILLED WITH SPARE PINS/sockets OR PLASTIC GROMMET SEALING PLUGS.
- A DOT (•) BEFORE A CONNECTOR CONTACT LETTER DENOTES LOWER CASE.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- IDENTIFY CONNECTORS WITH SHRINK SLEEVE LABELS.

117920 MWS
140505

RELEASED
2014-01-22

DESIGN	100	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	100		
CHECKED	100	DRAWING NO.	REV. D
MFG. APPR.	100	D4728	SHEET 15 OF 15
APPROVED	100	TITLE	SCALE
DE APPR.	100	UTILITY INTERIOR WIRING HARNESS	NTS
DATE	14.01.09	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
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Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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June 27, 2014

To: Mike Gregoire
Dart Aero
1270 Aberdeen St.
Hawkesbury ON K6A 1K7 CANADA

From: Cándido Rodríguez Pérez
Quality Manager

Subject: P/N – D4728-063 (CC3986-V15) P.O. # PO24007 REPORT: FAI - 110

As part of our Quality System Process under Customer requirement for the AS9102 FAI report, enclosed will find the forms 1, 2, and 3 for the AS9102 FAI. Enclosed is an official copy of the FAI-110 for your review and Approval. After your evaluation please return form # 1 filled in section 21 to 24 as evidence of approval. Originals are kept on the Quality Assurance office file for future customer review.

The form # 2 Product Accountability; includes the materials used for the assembly shipped to your attention. Original copies of the material certificates are kept at Positronic Industries Caribe files and a copy have been included with this package.

If there a requirement to provide on the future of any additional information regards the FAI- 110 contact me at the below address.

Sincerely,

Cándido Rodríguez Pérez
Quality Manager
Positronic Industries Caribe, Inc.
El Tuque industrial Park
101 Road # 591
Ponce, Puerto Rico 00728-2807
e-mail: CRodriguezPerez@connectpositronic.com
phone: 787-841-0920

POSITRONIC INDUSTRIES CARIBE, INC.

Sheet 1 of 1

AS9102 - First Article Inspection

Form 1: Part Number Accountability

Form 1: Part Number Accountability			
1. Part Number D4728-063 (CC3986-V15)	2. Part Name CABIN TEMP SENSOR JUMPER ASSY	3. Serial Number N/A	4. FAI Report Number FAI-110
5. Part Revision Level REV. D	6. Drawing Number D4728	7. Drawing revision level REV. D	8. Additional Changes N/A
9. Manufacturing Process Reference N/A	10. Organization Name POSITRONIC INDUSTRIES CARIBE, INC.	11. Supplier Code 54YW5	12. P.O. Number PO24007
13. Detail FAI <input checked="" type="checkbox"/>	14. Full FAI <input checked="" type="checkbox"/> Partial FAI <input type="checkbox"/>	Baseline Part Number including revision level ----- Reason for Partial FAI: NEW	
Assembly FAI <input type="checkbox"/>			

- a) if above part number is a detail part only, go to Field 19
b) if above part number is an assembly, go to the "INDEX" section below.

INDEX of part numbers or sub-assembly numbers required to make the assembly noted above.

[illegible]

1) Signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.			

2) Also indicate if the FAI is complete per Section 5.4: ☐ FAI complete

☐ FAI not Complete

19. Signature

20. Date _____

21. Reviewed By

Cândido Rodrigues

22. Date	
----------	--

6-27-14

23. Customer Approval

24. Date



www.connectpositronic.com

Positronic Industries Caribe, Inc.
101 ROAD #591
EL TUQUE INDUSTRIAL PARK
PONCE, Puerto Rico 00728-0920
PUERTO RICO
Phone: 787-841-0920
Fax: 787-841-5345

An ISO 9001
SAE AS9100
Certified
Company

Sales Order: 20847

Cust id: 22558

Sales Order Acknowledgement

Page: 2 of 4

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
3	D4728-043	D 1.0000 EA	38.75000/1	38.75

D4728-043

Our Part: CC3986-V03

Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
4	D4728-044	D 1.0000 EA	38.75000/1	38.75

D4728-044

Our Part: CC3986-V04

Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
5	D4728-045	D 1.0000 EA	45.18000/1	45.18

D4728-045

Our Part: CC3986-V05

Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
6	D4728-046	D 1.0000 EA	38.75000/1	38.75

D4728-046

Our Part: CC3986-V06

Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
7	D4728-047	D 1.0000 EA	15.03000/1	15.03

D4728-047

Our Part: CC3986-V07

Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
8	D4728-049	D 1.0000 EA	16.02000/1	16.02

D4728-049

Our Part: CC3986-V08

Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000



www.connectpositronic.com

Positronic Industries Caribe, Inc.
101 ROAD #591
EL TUQUE INDUSTRIAL PARK
PONCE, Puerto Rico 00728-0920
PUERTO RICO
Phone: 787-841-0920
Fax: 787-841-5345

An ISO 9001
SAE AS9100
Certified
Company

Sales Order: 20847

Sales Order Acknowledgement

Page: 3 of 4

Cust id: 22558

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
9	D4728-051 D4728-051	1.0000 EA	15.99000/1	15.99

Our Part: CC3986-V09
Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
10	D4728-053 D4728-053	1.0000 EA	15.99000/1	15.99

Our Part: CC3986-V10
Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
11	D4728-055 D4728-055	1.0000 EA	16.05000/1	16.05

Our Part: CC3986-V11
Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
12	D4728-057 D4728-057	1.0000 EA	8.84000/1	8.84

Our Part: CC3986-V12
Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
13	D4728-059 D4728-059	1.0000 EA	21.68000/1	21.68

Our Part: CC3986-V13
Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
14	D4728-061 D4728-061	1.0000 EA	316.86000/1	316.86

Our Part: CC3986-V14
Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000



Positronic[®]
global connector solutions

www.connectpositronic.com

Positronic Industries Caribe, Inc.
101 ROAD #591
EL TUQUE INDUSTRIAL PARK
PONCE, Puerto Rico 00728-0920
PUERTO RICO
Phone: 787-841-0920
Fax: 787-841-5345

An ISO 9001
SAE AS9100
Certified
Company

Sales Order: 20847

Sales Order Acknowledgement

Page: 4 of 4

Cust id: 22558

Line	Part Number/Description Rev	Order Qty	Unit Price	Ext. Price
15	D4728-063 D4728-063	D 1.0000 EA	5.78000/1	5.78

Our Part: CC3986-V15

Rev: 1

Rel	Date	Quantity
1	7/2/2014	1.0000

Order Miscellaneous Charges:

Quantity	Unit Price	Freq	Description	Ext. Price
1)	1	724.54(F)	TOOLING CHARGES	724.54
2)	1	500.00(F)	QUALITY TESTING	500.00
				<u>1,224.54</u>

Line Total:	677.60
Line Miscellaneous Charges:	0.00
Tax Amount:	0.00
Order Miscellaneous Charges:	<u>1,224.54</u>
Order Total	1,902.14USD

To view our Terms and Conditions, please visit <http://www.connectpositronic.com/pdf/view/272>

POSITRONIC INDUSTRIES CARIBE, INC.

AS9102 - First Article Inspection

Sheet 1 of 1

Form 2: Product Accountability – Raw Material, Specifications and Special Processes,

Functional Testing

Functional Testing					
1. Part Number D4728-063 (CC3986-V15)	2. Part Name CABIN TEMP SENSOR JUMPER ASSY		3. Serial Number N/A		4. FAI Report Number FAI - 110
5. Material or Process Name	6. Specification Number	7. Code	8. Special Process Supplier Code	9. Customer Approval Verification (Yes/No/NA)	10. Certificate of Conformance number
1)MS25036-13 RING TERMINAL	A5054-90-9-0	N/A	SUPPLIER # 601		LOT # 02443911412
2)M23053/5-103-9,3/32"/WHT/TYCO	A5052-8-3-0	N/A	SUPPLIER # 616		LOT # 02493201420
3)M22759/41-20-9, HOOK UP WIRE, 20AWG, WHITE	5049-217-9-0	N/A	SUPPLIER # 658		LOT # 02521421425
11. Functional Test Procedure Number		12. Acceptance report number, if applicable			
13. Comments					
SUPPLIER # 601 – TTI, INC. – 2601 SYLVANIA CROSS, FT WORTH TX 76137					
SUPPLIER # 616 – A.E. PETSCHER CO. – 2112 W. DIVISION, ARLINGTON TX 76022					
SUPPLIER # 658 - WIRE MASTERS – 1788 NORTHPOINTE ROAD, COLUMBIA TN 38401					
14. Prepared By 			15. Date 6-27-14		

44F 043 Revisión Original

Job Pick List

Page: 1 of 1
Date: 6/19/2014

JOB:
020847-15-1



ASM:
0



REVISION:
1



PART:

CC3986-V15
D4728-063



25/14

COMPONENT ...SUB-ASSEMBLIES/RAW MATERIALS:

Qty Needed	From	Req Date	Qty Issued	UOM	Whse	Bin	Lot
2.0000 EA	PRCOMP	6/9/2014					

Mtl: 10 A5054-90-9-0



MS25036-103 RING TERMINAL

On Hand:

102.0000 EA
300.0000 EA

Whse: PRCOMP
PRCOMP

Bin: AD24D
AD24D

Lot: 02443911412 2
02501641421

JRS

Mtl: 20 ~~A5052-9-3-0~~ Change to A5052-8-3-0



M23053/5-10⁵-9,3/16" WHT/TYCO

8.0000 CM PRCOMP 6/9/2014

On Hand:

23,281.0000 CM
7,620.0000 CM

Whse: PRCOMP
PRCOMP

Bin: AB13B
AB13B

Lot: 02464044415 8
02495161420

First Article

6/27
Promised

Mtl: 30 5049-217-9-0



M22759/41-20-9, HOOK UP WIRE, 20AWG, WHITE

61.0000 CM PRCOMP 6/9/2014

On Hand:

36,576.0000 CM

Whse: PRCOMP

Bin: INCOMING

Lot: 02521421425 61

TTI, INC.
2601 SYLVANIA CROSS
FT. WORTH TX 76137
UNITED STATES

PACKING LIST



ORDER-PL#	SHIP DATE	PAGE
2126095-01	03/18/14	01 of 02
CUSTOMER P.O. NUMBER		
908134		

S POSITRONIC INDUSTRIES CARIBE
H EL TUQUE INDUSTRIAL PARK
I 101 ROAD #591
P PONCE 00728-2804
T PUERTO RICO
O

SALES REP	SHIP VIA	CATCHBOX	CUSTOMER ACCT #
FL0702	UBLU INT C (C)	N	PRM006
ORDER DATE	BUYER		QA INSPECTOR
03/17/14	CRISTINE COLON		RALPHW

THANK YOU FOR YOUR ORDER

LN NO	PART NUMBER EXPORT INFORMATION CUSTOMER REFERENCE/REVISION	PART DESCRIPTION / MFG QPL # MANUFACTURE DATA	DATE/LOT CODE	QUANTITY SHIPPED
01	RAY 650075N003 Commodity Code: 8536.90.4000 OTHER, TERMINALS 5054-136-5-0	*Pb free/**RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 37.15	TOTAL	25
02	TYC 183035-1 Commodity Code: 8536.69.4040 PRINTED CIRCUIT CNCTRS 5054-304-0-0	*Pb free/**RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 6.05	TOTAL	50
03	RAY CTA-0166 Commodity Code: 3917.39.0050 OTHER PLASTIC TUBES A5054-113-7-0	226335-000 *Pb free/**RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 1,149.00	TOTAL	1,000
04	ACC 17E-1724-2 Commodity Code: 8538.90.8080 OTR ELECTRICAL PARTS A5054-157-2-0	DOUB 9 CRT PLASTIC BACKSHELL *Pb free/**RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 24.50	TOTAL	10
05	MOL 43025-2000 Commodity Code: 8538.90.8080 OTR ELECTRICAL PARTS A5054-222-16-0	*Pb free/**RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 87.00	TOTAL	200
06	TYC 36154 Commodity Code: 8536.90.4000 OTHER, TERMINALS A5054-90-9-0	RING-TRN 22-18 S10 RYL RED *Pb free/**RoHS COMPLIANT *Per Producer documentation TOTAL VALUE 27.75	TOTAL	250

INSTRUCTIONS:

SEE REVERSE SIDE FOR IMPORTANT INSTRUCTIONS

**Global Headquarters**

TTI Inc.
2441 Northeast Parkway
Fort Worth, Texas 76106
(817) 400-9000
(817) 400-9898 Fax
www.ttiinc.com

European Headquarters

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Ganghoferstr. 34
82216 Maisach - Gernlinden
Germany
+49 8142 6680-0
+49 8142 6680-490 Fax
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Asia Headquarters

TTI Electronics Asia Pte. Ltd.
3-Changi North Street 2
Logistech Building #03-07
Singapore 498827
(65) 6788-9200
(65) 6788-9300 Fax
www.ttiasia.com

1-800-CALL-TTI

Alabama Huntsville (256) 721-1597

Arizona Tempe (480) 638-1590

Tucson (520) 624-6929

California Los Angeles (818) 407-8000

Orange County (714) 505-4857

Sacramento (916) 987-4600

San Diego (619) 748-2025

San Fernando Valley (818) 407-8000

San Francisco (415) 391-1669

San Jose (415) 668-0830

Santa Barbara (805) 963-8857

Colorado Denver (303) 427-0241

Connecticut Wallingford (203) 949-6262

Florida Fort Lauderdale (954) 761-8177

Orlando (407) 273-6977

Tampa/Clearwater (813) 855-6619

Illinois Chicago (847) 884-6500

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Kansas Overland Park (913) 789-6427

Wichita (316) 262-7711

Massachusetts Boston (978) 851-2000

Maryland

Baltimore (410) 995-6627

D.C. Area (301) 621-8006

Michigan

Detroit (313) 524-2810

Grand Rapids (616) 243-5600

Minnesota

Minneapolis (952) 829-7200

Missouri

Saint Louis (314) 878-2228

New Jersey

N. Jersey - Morris County (856) 234-6400

S. Jersey - Philadelphia (856) 234-6400

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Albuquerque (505) 888-3260

New York

Binghamton (607) 723-9180

Buffalo (716) 842-2692

Long Island - NYC Metro (631) 737-2000

Rochester (585) 232-4470

Syracuse (315) 426-1228

North Carolina

Raleigh (919) 876-8922

Ohio

Cleveland (216) 524-2810

Columbus (614) 848-5770

Dayton (937) 885-6270

Oregon

Beaverton (503) 644-4560

Pennsylvania

Philadelphia (215) 546-4611

Pittsburgh (412) 281-4644

Texas

Austin (512) 795-2470

Fort Worth (817) 594-5900

Houston (713) 339-2700

Utah

Salt Lake City (801) 364-3400

Virginia

Richmond (804) 775-2130

Washington

Seattle (425) 882-0291

Wisconsin

New Berlin (252) 797-9265

Canada

Montreal (514) 426-1212

Ottawa (613) 567-7122

Toronto (905) 850-3003

Canada 1-800-225-5884

(or your closest office)

Latin America

Mexico (only) 1-800-225-5884

Puerto Rico 1-800-225-5884

U.S. (817) 624-6380

U.S. Fax (817) 624-6383

Europe

Vienna, Austria

Brno, Czech Republic

Copenhagen, Denmark

Brive, France

Dortmund, Germany

Hanover, Germany

Munich, Germany

Stuttgart, Germany

High Wycombe, Great Britain

Budapest, Hungary

Ra'anana, Israel

Bologna, Italy

Milan, Italy

Padua, Italy

Eindhoven, Netherlands

Kwidzyn, Poland

Cluj Napoca, Romania

North Lanarkshire, Scotland

Bratislava, Slovakia

Honeydew, South Africa

Barcelona, Spain

Bilbao, Spain

Gothenburg, Sweden

Stockholm, Sweden

Basel, Switzerland

Istanbul, Turkey

Essex, United Kingdom

Asia

Bangalore

Hong Kong

Shanghai

Shenzhen

Singapore

Taiwan

Thailand

CERTIFICATION OF COMPLIANCE Seller hereby certifies that the products furnished on this shipment were manufactured by the referenced manufacturers in accordance with and conform to the applicable manufacturers and military specifications, including MIL-STD-202 and IPC EIA J-STD-002. Any value added work performed is limited as set forth in the **DISCLAIMER OF WARRANTIES AND LIMITATION OF REMEDIES** below hereof. Seller is an authorized distributor of the products furnished on this shipment and hereby certifies that the products are new, unused, and were purchased from the original manufacturer or through the manufacturer's authorized distribution. The original manufacturer warrants and certifies that the products it produces meet its specifications. Certifications to these effects are on file with the seller or are available from the manufacturer.

QPL CERTIFICATE - Seller certifies that the articles furnished in the quantities indicated, and against the referenced purchase order were produced by the named manufacturer, qualified under the Referenced Test Number, and QPL (or interim approval) number shown in the corresponding column on this document. The manufacturer's Certificate to this effect is on file with Seller or will be requested from the manufacturer.

MERCURY CERTIFICATE - Seller certifies that the components supplied for your order were manufactured without Mercury compounds and do not contain any Mercury. Data supporting this statement is on file with the Seller or available from the manufacturer.

TTI is registered to ISO9001:2008 globally, AS9100 in the U.S. and EN9120 & EN9100 in Europe.

CLAIMS: BUYER is deemed to have accepted the Products unless notice of rejection is given within a reasonable time, which is agreed to be within ten (10) days after receipt. **CLAIMS OF LATE DELIVERY** are void unless made prior to receipt of Products, and receipt of Products shall constitute a waiver of any claim of late delivery. No return will be accepted without prior "Return Material Authorization" (R.M.A. #). Material must be returned as directed by the location issuing the R.M.A. # and be in its original packaging. Returns of products packaged in electrostatic packaging will not be accepted if electrostatic packaging has been opened.

QA INSPECTOR OR DESIGNEE is authorized by **DIRECTOR, TOTAL QUALITY** to certify conformance to the customer or military requirement referenced on this document.

ACCEPTANCE AND CANCELLATION OF ORDERS.

Each order for goods is subject to acceptance in writing by a duly authorized agent of seller; any written acknowledgement of receipt of an order shall not, in and of itself, constitute such acceptance. Orders accepted by Seller may be cancelled by Buyer upon written consent of Seller. In the event of cancellation or other withdrawal of an order for any reason and without limiting any other remedy which Seller may have as a result of such cancellation or other withdrawal, reasonable cancellation or restocking charges, which shall include all expenses then incurred and commitments made by Seller, shall be paid by Buyer to Seller. Special orders for items not normally stocked are non-cancelable and non-refundable.

DISCLAIMER OF WARRANTIES AND LIMITATION OF REMEDIES.

Seller disclaims any warranty respecting the merchantability of the products sold to Buyer or their fitness for any particular purpose or use. Seller agrees to transfer to Buyer whatever transferable warranties Seller receives from the manufacturer of products sold to Buyer. Value-added work performed by Seller will conform to applicable Buyer's specifications relating to such work.

THE WARRANTIES STATED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER STATUTORY, EXPRESS OR IMPLIED.

Seller's liability arising out of any sale of goods to Buyer is expressly limited to either (1) Refund of the purchase price paid by Buyer for such goods (without interest), or (2) Repair and/or replacement of such goods, at Seller's election, and such remedies shall be exclusive and in lieu of all others. **IN NO EVENT SHALL SELLER BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, INCLUDING BUT NOT LIMITED TO, PERSONAL INJURY OR PROPERTY DAMAGE.** Buyer's recovery from Seller for any claim shall not exceed the purchase price paid by Buyer for the goods, irrespective of the nature of the claim, whether in warrant, contract or otherwise. Any action resulting from any breach on the part of Seller as to the goods delivered hereunder must be commenced within one (1) year after the receipt of goods by Buyer.

BUYER'S TERMS AND CONDITIONS.

Seller desires to provide its customers with prompt and efficient service. Accordingly goods furnished and services rendered by Seller are sold only on the terms and conditions stated herein. Notwithstanding any terms and conditions on Buyer's order, the information and conditions on the Credit Application are controlling over Buyer and Seller. Any conflicting statements or terms listed on the Buyer purchase orders, invoice, confirmations or other Buyer generated documents ("Buyer Documents") whether heretofore or hereafter submitted are negated by submission of the Credit Application and the issuance of credit by Seller, and all different or additional terms and conditions contained in any Buyer Documents are hereby objected to by Seller. Seller's performance of any contract is expressly made conditional on Buyer's agreement to Seller's Terms and Conditions of Sale, unless otherwise specifically agreed in writing by Seller. In the absence of such agreement, commencement of performance and/or delivery shall be for Buyer's convenience only and shall not be deemed or construed to be acceptance of Buyer's terms and conditions, or any of them. If a contract is not earlier formed by mutual agreement in writing, acceptance by Buyer of any goods or services shall be deemed acceptance by Buyer of the terms and conditions stated herein.

BUYER agrees to comply with all applicable U.S. export control laws and regulations, specifically including, but not limited to, the requirements of the Arms Export Control Act, 22 U.S.C. 2751-2794, including the International Traffic in Arms Regulations (ITAR), 22 C.F.R. 120 et seq.; the Export Administration Act, 50 U.S.C. app. 2401-2420, including the Export Administration Regulations, 15 C.F.R. 730-774, including the requirement for obtaining any export license or agreement, if applicable; and, compliance with Office of Foreign Assets Control (OFAC) economic and trade sanctions against targeted foreign countries and regimes, terrorists, international narcotics traffickers, those engaged in activities related to the proliferation of weapons of mass destruction, and other threats to the national security of the United States as set forth in Appendix A to 31 C.F.R. Chapter V and on OFAC's web site at <http://www.ustreas.gov/offices/enforcement/ofac>. Without limiting the foregoing, BUYER further agrees that it will not transfer any export controlled item, data, or services, to include transfer to foreign persons employed by or associated with, or under contract to BUYER, without the authority of an export license, agreement, or applicable exemption or exception. BUYER shall immediately notify SELLER if BUYER is, or becomes, listed in any Denied Parties List or if BUYER's export privileges are otherwise denied, suspended or revoked in whole or in part by any U.S. Government entity or agency. If BUYER is engaged in the business of exporting defense articles or furnishing defense services, BUYER represents that it is registered with the Directorate of Defense Trade Controls, as required by the ITAR, and it maintains an effective export import compliance program in accordance with the ITAR. **COMPLIANCE WITH EXECUTIVE ORDER 11246:** TTI fully incorporates by reference, and is bound by and subject to, the provisions set forth in 41 C.F.R. 60-1.4(a). **YOU ARE HEREBY NOTIFIED** that acceptance of this contract constitutes (1) your agreement to be bound by the requirements, regulations, and provisions contained in 41 C.F.R. 60-1.4(a), to the extent required by law, and (2) your consent to provide any required certification of same to TTI, at TTI's request.

Limitation of Liability per Shipment

BUYER agrees that SELLER shall in no event be liable for any loss, damage, expense or delay to the goods for any reason except to the extent caused by its negligence or willful misconduct. BUYER has the option of paying special compensation to increase the liability for the shipment in case of any loss, damage, expense or delay, but such options can be exercised only by specific written agreement made with SELLER prior to shipment, which agreement shall indicate the limit of liability and the additional compensation for the added liability to be assumed.

THANK YOU FOR YOUR ORDER AND YOUR CONFIDENCE IN US. We want to provide you the best service available. If you have any questions or problems, please have your buyer call your TTI sales/customer service representative to assist you.

SHIP TO

POSITRONIC IND. CARIBE II
101 ROAD 591
EL TUQUE IND. PARK

PONCE,
PUERTO RICO

00728-2803

SOLD TO

POSITRONIC IND. CARIBE IN
P O BOX 8247

SPRINGFIELD, MO
UNITED STATES OF AMERICA 65801

CERTIFICATE OF COMPLIANCE / PACKING LIST

A.E. Petsche Co.

WWW.AEPETSCH.COM

Salesperson - Frances Summers
Ship Date - 5/08/2014
Shipped By - Juan Mojica
Invoice On - ** TODAY ** # 234408

SPECIAL INSTRUCTIONS

This is to certify that the articles in the quantities shipped are in conformance with the applicable requirements, specifications, and/or drawings listed on your purchase order.

CUST. CODE	CUSTOMER PURCHASE ORDER NUMBER		BUYER NAME	A E P SALES ORDER NUMBER	TOTAL CONTAINERS	TOTAL WEIGHT	CARRIER		
PRMO	908527		Cristine Colon	A/N34-31338	2/1/0	6	UPS BLUE COL		
LINE NO.	QUANTITY ORDERED	DESCRIPTION OR PART NUMBER	MANUFACTURER / DOM LOT NUMBER	CONTAINER	WEIGHT	TRACKING NUMBER	QUANTITY BY CONTAINER	TOTAL SHIPPED	
8	1,000	M23053/S-103/303-9 VERSAFIT SPOOL	TYCO ELECTRO 3/20/2014	48188265-A5903216					
	FEET	A5052-8-3-0	201659677	-					
		ST053R5X 332	DOE: 3/20/2019	-					
		SHRINKABLE TUBING	ROHS: Compliant						
			COO: US Cage: 06090						
B/O	0			Container 1	6	1Z7612100271552354	1,000	1,000	

This shipment is being sent subject to our standard terms and conditions, a copy of which is available at www.aepetsche.com or upon request.

Quality Designee

Shipping Point - A. E. PETSCH CO., INC.

2112 W. DIVISION

ARLINGTON, TX 76012

(817) 461-9473

AEP-7



Tyco Electronics
300 Constitution Drive
Menlo Park, CA. 94026-1164
Tel: (650) 361-3333 Fax: (650) 361-XXXX

A E Petsche Company Inc
Branch ID A1 (Arlington)
2112 W Division St
Arlington TX 76012-3605

Certificate of Conformance

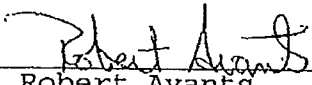
Page: 1

Date
05/02/2014
Purchase order Item
A59-03216/1
Delivery Item
6000661644/1
Order Item
3035261600/1
Customer Number
180388
Customer Specification / Rev.
SAE-AMS-DTL-23053/5/A

Except for any exceptions, reservations, or exemptions, listed on this document, the listed supplies conform to the applicable TE Connectivity Specification. Representative inspection and/or test data is on file and available for review.

Versafit meet RW-3009 Issue 3 and Class 1 and 3 of SAE-AMS-DTL-23053/5.
MIL-LT meets RT-1171 Issue 7, and Class 3 of SAE-AMS-DTL-23053/5.
RNF-100 meets RT-350 Issue 17, Type 1 Colors and Type 2 Clear and
SAE-AMS-DTL-23053/5 Class 1 Colors and Class 2 Clear.
Sleeving stored at 18 to 35 deg. C for 5 years shall conform to the
dimensional requirements specified

Our material number Our material description Your Material Reference	Batch#	Quantity
5058694008 VERSAFIT-3/32-9-SP M23053/5-103-9 M23053/5-303-9	201659677	4,500 FT


Robert Avants
Quality Assurance Representative



Tyco Electronics
300 Constitution Drive
Menlo Park, CA. 94025-1164
Tel: (650) 361-3333 Fax: (650) 361-XXXX

A E Petsche Company Inc
Branch ID A1 (Arlington)
2112 W Division St
Arlington TX 76012-3605

Test Report

Page: 1 / 1

Date
05/02/2014
Purchase order item
A59-03216 1
Delivery item
6000661644 1
Order item
3035261600 1
Customer number
180388
Customer Specification / Rev.
SAE-AMS-DTL-23053/5/A

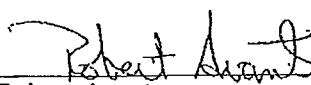
Our Material Number	Batch#	Quantity
Our Material Description		
Your Material Reference		
5058694008	201659677	4,500.000 FT
VERSAFIT-3/32-9-SP		
M23053/5-103-9 M23053/5-303-9		

Versafit meet RW-3009 Issue 3 and Class 1 and 3 of SAE-AMS-DTL-23053/5. MIL-LT meets RT-1171 Issue 7, and Class 3 of SAE-AMS-DTL-23053/5. RNF-100 meets RT-350 Issue 17, Type 1 Colors and Type 2 Clear and SAE-AMS-DTL-23053/5 Class 1 Colors and Class 2 Clear.
Sleeving stored at 18 to 35 deg. C for 5 years shall conform to the dimensional requirements specified

Test Report

Test Name	Test Results		Test Results		Pass/Fail
	Imperial		Metric		
Recovered ID (Jacket)	0.032	in	0.81	mm	Pass
Recovered Wall (Jacket)	0.020	in	0.51	mm	Pass
Expanded ID (Jacket)	0.110	in	2.79	mm	Pass
Concentricity (Jacket)	88	%			Pass
Longitudinal Change	-3.0	%			Pass
2% Secant Modulus (Expanded)	9278	psi	64	MPa	Pass
Tensile Strength	1780	psi	12	MPa	Pass
Ultimate Elongation	346	%			Pass
Color					Pass
Flammability ASTM D 2671 C					Pass
Heat Shock					Pass
Low Temperature Flexibility					Pass

Note: This test report may include results not required in the above specification.
When stored at 18 - 35 deg C, material will meet the dimensional attributes of the listed specification.


Robert Avants
Quality Assurance Representative
Tyco Electronics



Tyco Electronics

300 Constitution Drive

Menlo Park, CA. 94025-1164

Tel: (650) 361-3333 Fax: (650) 361-XXXX

A E Petsche Company Inc
Branch ID A1 (Arlington)
2112 W Division St
Arlington TX 76012-3605

Tyco Electronics

Certificate of Conformance

Page: 2

Date

05/02/2014

Purchase order item

A59-03216/1

Delivery item

6000661644/1

Order item

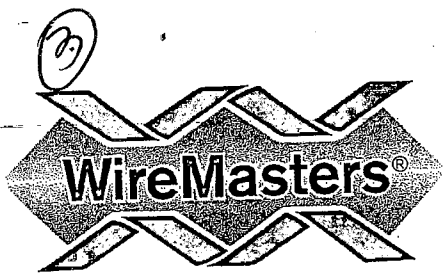
3035261600/1

Customer Number

180388

Customer Specification / Rev.

SAE-AMS-DTL-23053/5/A



1788 Northpointe Road
Columbia, TN 38401

(800) 635-5342
(615) 791-0281
Fax: (931) 380-5859

Invoice

Invoice	00687033	Page	1
Order #	00519196	Date	06/10/2014
Cust #	5050	Ship	06/10/2014
Slsman	Z	Ticket#	00623171

AS9100 & ISO 9001 Certified

Sold To: POSITRONIC INDUSTRIES, INC.
423 N. CAMPBELL AVE
SPRINGFIELD MO 65806 US-USA

Ship To: POSITRONIC CARIBE INC
101 ROAD # 591
EL TUQUE INDUSTRIAL PARK
PONCE PR 00728-0920 PUERTO RICO

Ship Via UPS B		F.O.B. SP		Terms NET 30		Customer PO Number 909072	
Line#	Quantity UOM	Item Number / Description		Shipped	Price	UOM	Extension
1	200 FT	WM22759/11-20-8 M22759/11-20-8 Cust P/N: 5049-86-6-0		200	210.00000	MFT	42.00
2	100 EA	WMTSHML2 MIL-S-83519/2-2 Cust P/N: 5054-85-10-0		100	.88000	EA	88.00
3	100 EA	WMTSHML9 MIL-S-83519/2-9 Cust P/N: 5054-85-7-0		100	.65000	EA	65.00
4	500 FT	WMSD-244T23 M27500-24SD4T23 Cust P/N: A5049-87-33-0		500	530.00000	MFT	265.00
7	500 FT	WMHS23053/5-107-9-S M23053/5-107-9 0.375" Cust P/N: A5052-5-3-0		500	16.00000	CFT	80.00
8	1,200 FT <div>(3)</div>	WM22759/41-20-9 M22759/41-20-9 Cust P/N: 5049-217-9-0 MADE IN THE USA-LINES 1,2,3,4 & 8 MADE IN THE REPUBLIC OF KOREA - LINE 7 TERMS EXW		1,200	90.00000	MFT	108.00
Product Total		Discount		Shipping		Tax	
				Miscellaneous		Invoice Total	
						Continued	

**Tijuana Operations Plant**

Av. Produccion No. 20, Parque Ind Int Tijuana

Tijuana, B.C. Mexico CP. 22424

Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Wiremasters Inc
1788 Northpointe Rd
Columbia TN 38401

Test Report

Repeat printout

Page: 1 / 2

Date

04/12/2014

Purchase order item

00232677 5

Delivery item

6000177621 1

Order item

3034945501 5

Customer number

222617

Customer Specification / Rev.

AS22759/41/4-2000

Our Material Description
Your Material Reference

Batch#

Date of Mfg/
Inspection

Shipment Qty

218448-001 22759/41-20-9
M22759/41-20-9

0208572392

04/03/2014

169,615,000 FT

Your Reference:

Base Spec: SAE AS22759, Rev. B

Test Report - 0208572392

Test Name	Lower Limit	Target Value	Upper Limit	Test Results	Unit of Measure
Specification: 55A & AS22759				Pass	
Conductor Material: N.C.				Pass	
Conductor Diameter:	0.0370		0.0390	0.0372	in
Cond. Stranding: 20 Awg - 19/32 Awg				Pass	
SEOD Strand Diameter:		0.0080		0.0080	in
Conductor Quality				Pass	
Conductor DC Resistance:			9.7700	9.5300	Ohm/k
Conductor Elongation 10% Min.	10.0			23.4	%
Core Wall Thickness (Min Reading)	0.0030			0.0035	in
Core Wall Thickness (Max Reading)	0.0030			0.0040	in
Concentricity:	70			88	%
Core Elongation	125			200	%
Core Tensile Strength	5000			9108	psi
Color				Pass	
Diameter:	0.0560		0.0600	0.0590	in
PJ Wall (Min. Reading)	0.0040			0.0060	in
PJ Wall (Max. Reading)	0.0040			0.0065	in
OA Wall (Min. Reading)	0.0090			0.0095	in
OA Wall (Max. Reading)	0.0090			0.0100	in
OA Concentricity:	70			95	%
OA Elongation:	75			100	%
OA Tensile Strength Median:	5000			6669	psi
ID: M22759/41-20 SU473				Pass	
ID Durability: 125 Cycles Min.				Pass	
500 Grams Weight.					
Insulation Flaws: 8 kV (Peak) Impulse				Pass	

**Tijuana Operations Plant**

Av. Produccion No. 20, Parque Ind Int Tijuana

Tijuana, B.C. Mexico CP. 22424

Tel: +52 (664) 647-4500 Fax: +52 (664) 647-4550

Wiremasters Inc
1788 Northpointe Rd
Columbia TN 38401

Test Report

Repeat printout

Page: 2 / 2

Date

04/12/2014

Purchase order item

00232677 5

Delivery item

6000177621 1

Order item

3034945501 5

Customer number

222617

Customer Specification / Rev.

AS22759/41/4-2000

Test Report - 0208572392

Test Name	Lower Limit	Target Value	Upper Limit	Test Results	Unit of Measure
or 5.7 kV (rms) Spark @ 3 kHz					
Insulation Flaws Core: 6.0 kV (Peak) Imp				Pass	
or 1.5 kV (rms) Spark Test @ 60 Hz					
Insulation Flaws Core: (Continued)				Pass	
or 4.2 kV (rms) Spark Test @ 3.0 kH					
Removeability of Insulation				Pass	
Weight:			4.700	4.700	lb/kft
* Crosslink Proof Test: 7 Hours @ 300°C				Pass	
CPT Mandrel: 0.5"				Pass	
CPT Weight: 1.5 lbs.				Pass	
* Coldbend: 4 Hours @ -65°C				Pass	
CB Mandrel: 1"				Pass	
CB Weight: 4 lbs.				Pass	
Thermal Shock: 200°C / -55°C				Pass	
Thermal Shock (End 1 Measurement)			0.060	0.004	in
Thermal Shock (End 2 Measurement)			0.060	0.003	in
Shrinkage: 6 Hours @ 230°C			0.125	0.005	in
Insulation Resistance:	5000			150000	MOhm-k
Flammability 60° 3 Seconds 3" Max.				Pass	
Flammability Afterburn:			3	0	s
Flammability Length of Burn:			3.00	0.95	in
Wicking:			2.25	0.00	in
* Wrap Back: 2 hrs @ 313°C No Cracking				Pass	
Workmanship: First Class and Uniform				Pass	
* Wet Dielectric Test 2.5 KV for 5 Min.				Pass	

Note: This test report may include results not required in the above specification.

Lorenzo Mendez
Quality Assurance Representative
Tijuana Operations

POSITRONIC INDUSTRIES CARIBE, INC.

AS9102 - First Article Inspection

Sheet 1 of 3

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

1. Part Number D4728-063 (CC3986-V15)				2. Part Name CABIN TEMP SENSOR JUMPER ASSY			3. Serial Number N/A	4. FAI Report FAI - 110
Characteristic Accountability				Inspection / Test Results			Optional Fields	
5. Char No.	6. Reference Location	7. Characteristic Designator	8. Requirement	9. Results	10. Designed Tooling	11. Non-Conformance Number	14A. GAGE USED	14B. INSPECTED BY:
1	A-8	NOTE 1	ALL NEW UNSHIELDED WIRE USE M22759/41-XX-9 TYPE WIRE UNLESS OTHERWISE SPECIFIED (M22759/41-XX-X IS NOT INTENDED TO BE USED IN SOLDER APPLICATIONS, SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER, USE CRIMP SPLICES FOR REPAIR).	N/A	N/A	N/A	VISUAL	QC 905
2	A-8	NOTE 2	ALL NEW TWISTED SHIELDED CABLE USE M27500-xxTGxT14 TYPE CABLE UNLESS OTHERWISE SPECIFIED.	N/A	N/A	N/A	VISUAL	QC905
3	A-8	NOTE 3	ALL WIRE 20 AWG UNLESS OTHERWISE SPECIFIED.	ACCEPTABLE	N/A	N/A	VISUAL	QC905

POSITRONIC INDUSTRIES CARIBE, INC.

AS9102 - First Article Inspection

Sheet 2 of 3

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

4	A-8	NOTE 4	IDENTIFY/CODE ALL WIRES AND CABLES IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.	ACCEPTABLE	N/A	N/A	VISUAL	QC905
5	A-8	NOTE 5	KEEP ALL JUMPERS, LOGIC STRAP, POWER, CHASSIS AND SIGNAL GROUND WIRES AS SHORT AS POSSIBLE.	N/A	N/A	N/A	VISUAL	QC905
6	A-8	NOTE 6	ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.	ACCEPTABLE	N/A	N/A	VISUAL	QC905
7	A-8	NOTE 7	ALL ELECTRICAL GROUNDING AND BONDING TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.	N/A	N/A	N/A	VISUAL	QC905
8	A-8	NOTE 8	ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.	N/A	N/A	N/A	VISUAL	QC905

POSITRONIC INDUSTRIES CARIBE, INC.

AS9102 - First Article Inspection

Sheet 3 of 3

Form 3: Characteristic Accountability, Verification and Compatibility Evaluation

9	A-8	NOTE 9	ENSURE ALL UNUSED CONNECTOR CONTACTS ARE FILLED WITH SPARE PINS/sockets OR PLASTIC GROMMET SEALING PLUGS.	N/A	N/A	N/A	VISUAL	QC905
10	A-8	NOTE 10	A DOT (*) BEFORE A CONNECTOR CONTACT LETTER DENOTES LOWER CASE.	N/A	N/A	N/A	VISUAL	QC905
11	A-8	NOTE 11	UNITS: INCHES UNLESS OTHERWISE NOTED.	ACCEPTABLE	N/A	N/A	VISUAL	QC905
12	A-8	NOTE 12	IDENTIFY CONNECTORS WITH SHRINK SLEEVE LABELS.	ACCEPTABLE	N/A	N/A	VISUAL	QC905
13	B-4	MARKING	3312- GND001A20N	ACCEPTABLE	N/A	N/A	VISUAL	QC905
14	B-5	MARKING	D4728-063, REV. D, DC 2514, 54YW5	D4728-063, REV. D, DC 2514, 54YW5	N/A	N/A	VISUAL	QC905
15	B-4	WIRE LENGTH	16.0" +/- 1.0"	16.0"	RULER	N/A	POS 1212	QC905

The signature indicates that all characteristics are accounted for; meet drawing requirements or are properly documented for disposition.

12. Prepared By



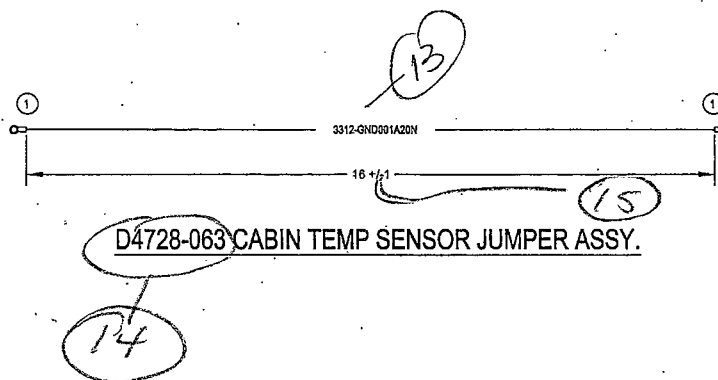
13. Date

6-27-14

44F 044 Revisión Original

LIST OF MATERIALS				
QTY PER	ITEM	PART NUMBER	DESCRIPTION	SUPPLIER
2	1	MS25038-103	TERMINAL	TYCO ELECTRONICS

REFERENCE ONLY



NOTES:

1. ALL NEW UNSHIELDED WIRE USE M22759/41-XX-9 TYPE WIRE UNLESS OTHERWISE SPECIFIED (M22759/41-XX-X IS NOT INTENDED TO BE USED IN SOLDER APPLICATIONS, SOLDERABILITY CAN BE ACHIEVED WITH THE PROPER SOLDER, USE CRIMP SPLICES FOR REPAIR).
2. ALL NEW TWISTED SHIELDED CABLE USE M27500-XXTGT14 TYPE CABLE UNLESS OTHERWISE SPECIFIED.
3. ALL WIRES 20 AWG UNLESS OTHERWISE SPECIFIED.
4. IDENTIFY/CODE ALL WIRES AND CABLES IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.
5. KEEP ALL JUMPERS, LOGIC STRAP, POWER, CHASSIS AND SIGNAL GROUND WIRES AS SHORT AS POSSIBLE.
6. ALL TERMINALS TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.
7. ALL ELECTRICAL GROUNDING AND BONDING TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.
8. ALL CONNECTORS TO BE INSTALLED IN ACCORDANCE WITH 39-A-AWDP-00-X WIRING DATA PUBLICATION.
9. ENSURE ALL UNUSED CONNECTOR CONTACTS ARE FILLED WITH SPARE PINS/sockets OR PLASTIC GROMMET SEALING PLUGS.
10. A DOT (•) BEFORE A CONNECTOR CONTACT LETTER DENOTES LOWER CASE.
11. UNITS: INCHES UNLESS OTHERWISE NOTED.
12. IDENTIFY CONNECTORS WITH SHRINK SLEEVE LABELS.

RELEASED
2014-01-22

DESIGN	DA	DART AEROSPACE LTD	
DRAWN	DA	HAWKESBURY, ONTARIO, CANADA	
CHECKED	SE	DRAWING NO.	REV. D
MFG. APPR.	LJ	D4728	SHEET 15 OF 15
APPROVED	SE	TITLE	SCALE
DE APPR.	SE	UTILITY INTERIOR WIRING HARNESS	NTS
DATE	14.01.09	COPYRIGHT © 2013 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

MAY 30 2014



Positronic | Puerto Rico
101 Road #591
El Tuque Industrial Park
Ponce 00728-2803 Puerto Rico

CABLE QUALITY INSPECTION REPORT

1st Article ☒ Production ☐ Prototype ☐

Customer: DART AEROSPACE

P+ Part Number: CC3986-V15

Customer Part Number: D4728-063

Quantity Inspected: 1

Rework Order: Yes ☐ NO ☒ RMR # _____

Acceptance ☒ Rejected: _____

Inspector: LRios

Date: 7-02-14

Job Number: 020847-15-1

Identification Number for Instruments Used for QC Inspection

POS # _____ MEASUREMENT TAPE POS # _____ RETENTION TOOL TESTING AREA: POS # _____ CIRRIS AC
POS # _____ CALIPER POS # 1212 RULER POS # _____ OTHER POS # _____ HP POS# _____ TESTER

Visual Inspection

1st Article INSPECTION ORDER
A R A R

Visual Inspection

1st Article INSPECTION ORDER
A R A R

Note 3 - All wires 20AWG unless otherwise specified.

X

Note 4 - Identify/code all wires and cables in accordance with 39-A-AWDP-00-X.

X

Note 6 - All terminals to be installed in accordance with 39-A-AWDP-00-X.

X

Note 12- Identify wire with shrink sleeve label

X

Label - 3312-GND001A20N
(Located at center of cable)

X

Label P/N - D4728-063
REV. D D/C 25/14 54YW5

X

Dimensional Inspection

A R A R INSTRUMENT USED

Dimensional Inspection

A R A R INSTRUMENT USED

DIM. 16.0" ± 1.0"

16"

R

Electrical Test Approval

A R A R INSTRUMENT USED

Comments:

BUZZLIGHT

X

Note: Positronic Industries Caribe, Inc. 100% inspects cable assemblies in accordance with the customer requirements and in conjunction with the IPC/WHMA-A-620 standard and/or manufacturer specifications as required.

INSTRUMENTS LEGEND: CA = CALIPER R = RULER MT = MEASUREMENT TAPE RT = RETENTION TOOL P = PIN GAGE C = CIRRIS HP = HEWLETT PACKARD
AC = AC TESTER BL = BUZZ LIGHT ML = MULTIMETER